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BRACHIOPODA

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Palaeogene. — Cuba, COOPER **29**; (Eocene) England, ELLIOTT **46**; (?Oligocene) Malta, HYDE **66**; (Eoc.) Sussex, MARTIN **99**; (Eoc.) Turkey, TOKAY **163**.

Neogene.—(Miocene) Malta, HYDE **66**; (Pliocene) Italy, MALARODA **98**.

Pleistocene. — Japan, HATAI & HAYASAKA **61**.

RECENT.

General, ANCONA **4**; Pakistan, BHATTI & SALEEM **15**; Bikini, COOPER **31**; Alaska, MCGINITIE **95**; General, MUIR-WOOD **109**, WILLIAMS **177**.

III.—SYSTEMATIC INDEX

NOTE.—The classification used here is according to H. M. Muir-Wood in "A history of the classification of the phylum Brachiopoda". British Museum (Nat. Hist.) London 1955. In view of the very varied state of revision of the different groups and to avoid certain inconsistencies, no subdivision is attempted here below the level of superfamilies.

Full references are given only in the case of new genera and species. In other cases the numeral in "Large bold Clarendon" refers to the list of titles where the full reference will be found. In the cases where a reference is given in the Systematic Part the volume number is printed in "Small bold Clarendon".

Generic and family names are arranged in alphabetical order within each superfamily.

CLASS INARTICULATA

Order ATREMATA

OBOLACEA

†*Lingulella zulupeana* **sp. nov.** p. 1, Cambrian, Argentina, RUSCONI Bol. Paleont. Buenos Aires **30** 1954; †*L. wirthi*, cf. *humillima*, aff. *nicholsoni* p. 8 all figd., SDZUY **137**; *L. wanniecki* p. 545 text-fig. 2, SCHINDEWOLF **133**; *L. franklinensis* p. 788, *granvillensis* p. 789, SHAW **140**; *L. proveedorensis* **sp. nov.** p. 68 figd. Cambrian Mexico, COOPER Bol. Inst. geol. Méx. **58** 1954.

†*Neobolus warthi* p. 546, text-figs. 3–6, serial sections pp. 550, 552, SCHINDEWOLF **133**.

†*Obolus champanus, plateanus* **spp. nov.** p. 1, Cambrian, Argentina. *O. faldensis, saltensis* spp. nov. p. 2, Ordovician Argentina. RUSCONI Bol. Paleont. Buenos Aires **30** 1954.

†*Obolus* (*Thysanotos*) *siluricus* p. 7 figd., SDZUY **137**.

LINGULACEA.

Glottidia (reproduction of figure by Beecher, 1897 showing stages in growth of lophophore) figd. p. 56, MUIR-WOOD **109**.

†*Lingula bicarinata, amalitzkii* both figd., HECKER **62**; *L. demissa* **sp. nov.** p. 214, figd. U^{r}. Jarassic Russia, GERASSIMOV State Scientific-Technical Publ., Moscow 1955; *L. tenuissima* p. 47 figd., ACCORDI **1**; *L. bicarinata*, cf. *cornea* p. 114, *L. cardiformis* **sp. nov.** p. 115 all figd., Devonian, Russia, ELLERN, IVANOV & KURBANOV Devonian brachiopods from Russian Tatara 1955; *L. subparallela* p. 12 figd. Devonian Russia, FEDOROVA **50**; *L. parellela* figd., JONGMANS & VAN DER HEIDE **72**; *L. mytilloides* figd., VAN DER HEIDE & MEYER **166**; *L.* cf. *attenuata*, p. 295, DESTOMBES **38**; *L. miciformis, caetra* **spp. nov.** p. 222, *L. subparallela, ligea* p. 223, *L. rostrata* **sp. nov.** p. 224 all figd., Devonian Russia, MIKRYUKOV **102**; *L. bicarinata, ligea* p. 73 *L. punctata* p. 74 all figd., NOVOJILOVA **116**; *L. tenuissima* p. 477, figd. Triassic Nottinghamshire, ROSE & KENT **128**; *L. mytilloides* p. 188, REICHELT **126**; *L.* sp. p. 113, BHATTI & SALEEM **15**; *L.* sp. No. 1, sp. No. 2, p. 276, sp. No. 3, p. 277 all figd., PETRENEVA **121**;

Lingula anatina (reproduction of figures by Cuvier, 1802) figd. p. 9; *L.* (reproduction of figure by Beecher, 1897 showing stages in growth of lophophore) figd. p. 56, *L.* sp. (reproduction of figure by Bosc, 1802) figd. p. 11, MUIR-WOOD **109**.

†*Lingulipora bavlensis* **sp. nov.** p. 224 figd. Devonian Russia, MIKRYUKOV **102.**

Order NEOTREMATA

†PATERINACEA

Dictyonina minutipuncta **sp. nov.** p. 72, *D.* sp. p. 73 both figd. Cambrian Mexico, COOPER Bol. Inst. geol. Méx. **58** 1954.

Micromitra sp. p. 71 figd., COOPER **33.**

Paterina bella p. 795, *P. labradorica swantonensis* p. 795, figd., SHAW **140;** *P.* sp. p. 70 figd., COOPER **33.**

SIPHONOTRETACEA

†*Botsfordia caelata* p. 784, SHAW **140;** *B. granulata* p. 540, text-fig. 1, SCHINDEWOLF **133.**

†*Obolella crassa* p. 790, SHAW **140;** *O. mexicana* **sp. nov.** p. 74 figd. Cambrian Mexico, COOPER Bol. Inst. geol. Méx. **58** 1954; *O.* cf. *atlantica* p. 13 figd., MAJOR & WINSNES **97.**

†*Schizopholis rugosa* p. 553 text-fig. 7, SCHINDEWOLF **133.**

†*Siphonotreta circularis* **sp. nov.** p. 8 figd. Tremadocian Germany, SDZUY Abh. senkenb. naturf. Ges. No. **492** 1955.

ACROTRETACEA

†*Acrothele concava* **sp. nov.** p. 78 figd. Cambrian Mexico, COOPER Bol. Inst. geol. Méx. **58**1954.

†*Acrotreta inchoans* p. 10 figd., SDZUY **137.**

†*Pegmatreta rara, arellanoi* **spp. nov.** pp. 76, 77 figd. Cambrian Mexico, COOPER Bol. Inst. geol. Méx. **58** 1954.

DISCINACEA

†*Discina* (*Orbithele*) **subgen. nov.** see under *Orbithele.*

†*Discinisca yaroslavensis* **sp. nov.** *conviva* **sp. nov.** p. 215 both figd. U. Jurassic Russia, GERASIMOV State Scientific-Technical Publ., Moscow 1955.

†*Orbiculoidea cincta, newberryi ovata* pl. 16, JONGMANS & VAN DER HEIDE **72;** *O.* sp. A, p. 62 figd., DUNBAR **41;** *O. newberryi* p. 115 figd., ELLERN, IVANOV & KURBANOV **45.**

†*Orbithele* **subgen. nov.** type species *Discina contraria* (Barrande) p. 9 figd. Tremadocian Germany, SDZUY Abh. senkenb. naturf. Ges. No. **492** 1955.

CRANIACEA

†*Crania* sp. A, sp. B p. 62 both figd., DUNBAR **41;** *C.* sp. p. 315 figd., COOPER **31.**

†*Craniscus hesperius* **sp. nov.** p. 2 figd. Cretaceous Arizona, COOPER Smithson. misc. Coll. **131** 4 1955.

Incertae sedis

†RUSTELLACEA

Rustellacea transferred from Order Palaeotremata p. 66, MUIR-WOOD **109.**

Rustella edsoni p. 801, SHAW **140.**

CLASS ARTICULATA

Palaeotremata discarded as an ordinal name; superfamily Rustellacea placed in class Inarticulata *incertae sedis*, superfamily Kutorginacea placed in suborder Orthoidea, p. 66, MUIR-WOOD **109.**

†ORTHOIDEA

KUTORGINACEA

Kutorginacea transferred to suborder Orthoidea p. 66, MUIR-WOOD **109.**

Kutorgina cingulata p. 787, figd., SHAW **140.**

ORTHACEA

Cyrtonotella sp. figd., NEUMAN **114.**

Dinorthis transversa figd., NEUMAN **114.**

Diraphora arrojosensis **sp. nov.** p. 82 figd. Cambrian Mexico, COOPER Bol. Inst. geol. Méx. **58** 1954.

Doleroides pervetus, pervetus gibbosus p. 768 both figd., WEISS **175.**

Finkelnburgia sp. p. 26 figd., HELLER **63.**

Jivinella ? **sp. nov.,** aff. *incola* p. 11 figd. Tremadocian, Germany, SDZUY **137.**

Nanorthis ? *bavarica* p. 11 figd., SDZUY **137.**

Nisusia sp. p. 80 figd., COOPER **33;** *N. festinata* p. 789, *transversa* p. 790, both figd., SHAW **140.**

Orthis elegantula p. 235, GIGOUT **54**; *O. budleighensis* p. 295, DESTOMBES **38**.

Plectorthis plicatella, plicatella trentonensis p. 767, *plicatella minnesotensis* **subsp. nov.** p. 768, all figd. Ordovician Minnesota, WEISS J. Paleont. **29** 1955.

Protorthis winfi p. 798, SHAW **140**.

Wimanella sp. p. 81 figd., COOPER **33**; *W. ? orientalis* p. 803, figd., SHAW **140**.

†DALMANELLOIDEA

Dalmanelloidea emended from Dalmanellacea pp. 67–8, MUIR-WOOD **109**.

DALMANELLACEA

Aulacella famenniensis p. 168 figd., BATANOVA **11**.

Hypsomyonia **gen. nov.** p. 52, type species *H. stainbrooki* **sp. nov.** p. 53 figd., Upper Devonian Iowa, COOPER J. Paleont. **29** 1955.

Kayserella revised p. 46, *americana* **sp. nov.** p. 47 figd., M. Devonian New York, *lepida* figd., COOPER J. Paleont. **29** 1955.

Monelasmina **gen. nov.** p. 53 type species *Orthis deshayesi* Rigaux figd. U. Devonian France, COOPER J. Paleont. **29** 1955.

Mystrophora defined p. 48, *areola* figd., COOPER **30**.

Paurorthis catawbensis figd., NEUMAN **114**.

Phragmophora **gen. nov.** p. 50 type species *P. schnuri* **sp. nov.** p. 52 figd. M. Devonian Germany, COOPER J. Paleont. **29** 1955.

Pionodema subaequata p. 769, figd., WEISS **175**; *P.* sp. figd., NEUMAN **114**.

Schizophoria aff. *striatula* figd., HECKER **62**; *S. tulliensis, striatula*, p. 13 figd., FEDOROVA **50**; *S.* sp. p. 296, DESTOMBES **38**; *S. ivanovi* p. 225 figd., MIKRYUKOV **102**; *S. striatula* p. 74, cf. *tulliensis* p. 75 both figd., NOVOJILOVA **116**; *S.* aff. *ivanovi* p. 346 figd., ADRUANOVA **2**.

†SYNTROPHIOIDEA

SYNTROPHIACEA

Camarella panderi p. 769, figd. Ordovician Minnesota, WEISS **175**; 'C'. *longirostris* figd., NEUMAN **114**.

Diaphelasma cf. *breviseptatum* p. 23 figd., MAJOR & WINSNES **97**.

Huenella billingsi p. 785, SHAW **140**.

Parastrophina hemiplicata p. 770, figd., WEISS **175**.

Poramborthis gemmata, catilla **spp. nov.** p. 12 both figd. Tremadocian Germany, SDZUY Abh. senckenb. naturf. Ges. No. **492** 1955.

Swantonia antiquata p. 802, SHAW **140**.

Syntrophina campbelli p. 27, *missouriensis* p. 28 both figd., HELLER **63**.

†PENTAMEROIDEA

PENTAMERACEA.

Conchidium cf. *baschkiricum* p. 228 figd., MIKRYUKOV **102**; *C.* cf. *pseudobaschkiricum* p. 173 figd., BATANOVA **11**.

Gypidula biplicatiformis p. 279 figd., PETRENEVA **121**; *G. biplicata* p. 118 figd., ELLERN, IVANOV & KURBANOV **45**; *G. biplicata* p. 173 figd., BATANOVA **11**; *G. askynica* p. 347 figd., *biplicata* p. 348 figd., *biplicatiformis* p. 349, ADRUANOVA **2**.

Pentamerella tschernyschewi **sp. nov.** p. 228 figd. Devonian, Russia. MIKRYUKOV **102**.

†TRIPLESIOIDEA

Triplesioidea emended from Triplesiida pp. 67–8, MUIR-WOOD **109**.

TRIPLESIACEA

Oxoplecia ulrichi p. 769, figd., WEISS **175**.

STROPHOMENOIDEA

†PLECTAMBONITACEA

Bimuria superba figd., NEUMAN **114**.

Sowerbyella sp. figd., NEUMAN **114**.

Sowerbyites sp. figd., NEUMAN **114**.

†STROPHOMENACEA

Christiania subquadrata figd., NEUMAN **114**.

Douvillina duterii p. 15 figd., FEDOROVA **50**.

Leptaena sp. figd. pl. 16, JONGMANS & VAN DER HEIDE **72**; *L. marginata* **sp. nov.** p. 1 Ordovician, Argentina, RUSCONI Bol. Paleont. Buenos Aires **32** 1955.

Pholidostrophia gracilis **sp. nov.** p. 6 figd., *gracilis gracilis, gracilis nanus* **subspp. nov.** p. 7 figd., IMBRIE Amer. Mus. Nov. No. **1754** 1955.

"*Rafinesquina*" *champlainensis* figd., NEUMAN **114.**

Stropheodonta interstrialis p. 15 figd., FEDOROVA **50;** *S. extenuata* **sp. nov.** p. 2 figd., *extenuata bellensis, extenuata rockportensis* **subspp. nov.** p. 3 figd., *extenuata extenuata* **subsp. nov.** p. 5 figd., *extenuata ferronensis,* **subsp. nov.** p. 6 figd., IMBRIE Amer. Mus. Nov. No. **1754** 1955; *S. latissima* p. 117 figd., ELLERN, IVANOV & KURBANOV **45;** *S.* cf. *uralensis* p. 225 figd., MIKRYUKOV **102;** *S. interstrialis* p. 169, *S. latissima* p. 170 both figd., BATANOVA **11;** *S. interstrialis* p. 296, DESTOMBES **38.**

"*Strophomena*" *tennesseensis* figd., NEUMAN **114.**

†ORTHOTETACEA

Derbyia sp. A, p. 66 figd., DUNBAR **41.**

Schelwienella figd. pl. 16, JONGMANS & VAN DER HEIDE **72;** *S.* cf. *umbraculum* p. 430 figd., NEFEDOVA **112.**

Streptorhynchus kempei p. 63, *stoschensis* **sp. nov.** p. 65 both figd., Permian East Greenland, DUNBAR Medd. Grønl. **110** 3 1955; *S. devonicus* p. 14 figd., FEDOROVA **50;** *S.* (?) *lepidus* p. 116 figd., ELLERN, IVANOV & KURBANOV **45.**

THECIDEACEA

†*Davidsonella* p. 1124, ELLIOTT **47.**

Lacazella (reproduction of figure by Beecher, 1897 showing stages of growth of lophophore) figd. p. 54, MUIR-WOOD **109;** *L.* shell structure discussed p. 1123, WILLIAMS **177.**

†*Thecidella cristagalli* p. 216 figd., GERASIMOV **52.**

Thecidellella concluded to be a synonym of *Thecidellina* p. 318, COOPER **31.**

Thecidellina congregata **sp. nov.** p. 316, *maxilla* p. 317, both figd. Recent Bikini, COOPER Geol. Survey U.S.A. Prof. Paper **260-G** 1954.

†OLDHAMINOIDEA

OLDHAMINACEA

Coscinophora **gen. nov.** p. 469 type species *C. nodosa* **sp. nov.** p. 470 figd. Permian West Texas, COOPER & STEHLI J. Paleont. **29** 1955.

Ctenalosia **gen, nov.** p. 470 type species *C. fixata* **sp. nov.** p. 471 figd. Permian West Texas, COOPER & STEHLI J. Paleont. **29** 1955.

Lyttonia richthofeni p. 11 figd., IMAMURA **69.**

Spyridiophora **gen. nov.** p. 471 type species *S. distincta* **sp, nov.** p. 473 figd., *reticulata* p. 472 figd., Permian West Texas, COOPER & STEHLI J. Paleont. **29** 1955.

†PRODUCTOIDEA

PRODUCTACEA

Avonia p. 411, *walcottiana, praelonga* p. 406, GOLDRING **55.**

Buxtonia scrabicula p. 406, GOLDRING **55.**

Cancrinella bolchovitinovae p. 71, *germanicus* p. 72 both figd., DUNBAR **41.**

Chonetipustula petini p. 77 figd., NOVOJILOVA **116;** *C. ilmenica* p. 227 figd., MIKRYUKOV **102;** *C.* aff. *calva* p. 434 figd., NEFEDOVA **112;** *C. petini* p. 278 figd., PETRENEVA **121;** *C. petini* p. 172 figd., BATANOVA **11.**

Echinoconchus p. 408, GOLDRING **55.**

Elliottella **nom. nov.** for *Psilonotus* p. 711, STEHLI **149.**

Gigantoproductus giganteus p. 405, GOLDRING **55.**

Juresania p. 408, GOLDRING **55.**

Kansuella p. 410, GOLDRING **55.**

Kochiproductus **nom. nov.** p. 107 *pro Tschernyschewiella* Fredericks 1924 (*non* von Toll 1899) type-species *K. plexicostatus* **sp. nov.** p. 109 figd., Permian East Greenland, DUNBAR Medd. Grønl. **110** 3 1955.

Krotovia nielseni **sp. nov.** p. 84 figd. Permian East Greenland, DUNBAR Medd. Grønl **110** 3 1955..

Linoproductus p. 409, "*L.*" cf. *hemisphaericus* p. 405, GOLDRING **55.**

Liostella (?) *hemiospherica* **sp. nov.** p. 74, *delicatula*, *vadosisinuata* **spp. nov.** p. 77, *grandicostata* **sp. nov.** p. 78, *spitzbergiana* p. 75 all figd. Permian East Greenland, DUNBAR Medd. Grønl. **110** 3 1955.

Marginifera p. 409, GOLDRING **55**.

Marginifera nathorstfjordensis **sp. nov.** p. 79, cf. *septentrionalis* p. 81 both figd. Permian East Greenland, DUNBAR Medd. Grønl. **110** 3 1955.

Mesoplica p. 411, GOLDRING **55**.

Muirwoodia greenlandica **sp. nov.** p. 103 figd. Permian East Greenland, DUNBAR Medd. Grønl. **110** 3 1955.

Pleurohorridonia **gen. nov.** p. 89 type species *P. scoresbyensis* **sp. nov.** p. 90 figd. Permian East Greenland, DUNBAR Medd. Grønl. **110** 3 1955.

Plicatifera meisteri p. 350 figd., ADRUANOVA **2**.

Productella cardinal process discussed in several species p. 403. GOLDRING **55**; *P. mesodevonica* p. 226 figd., MIKRYUKOV **102**; *P.* cf. *forojulensis*, *nibelia* **sp. nov.** p. 432, *subaculeata*, *P.* sp. p. 433 all figd. Devonian Russia, NEFEDOVA **112**; *P. productoides* p. 76 figd., NOVOJILOVA **116**.

Productidae structure of cardinal processes discussed, two types distinguished, GOLDRING **55**.

Productina fremingtonensis p. 404, GOLDRING **55**.

Productus ilmenicus, *fixatus* figd., HECKER **62**; *P.* aff. *pustulosus*, *semireticulatus*, both figd., MORTELMANS **108**.

Productus (*Avonia*) *lenae* **sp. nov.** p. 1103 Permian Russia, KULIKOV C.R. Acad. Sci. URSS **101** 6 1955.

Productus (*Krotovia*) *nummularis* p. 123 figd., TACHIBANA **156**.

Productus (*Marginifera*) *pseudoyakuticus*, *pseudosylvaensis* **spp. nov.** p. 1102 Permian, Russia, KULIKOV C.R. Acad. Sci. URSS **101** 6 1955.

Semiplanus mikhailovensis(?) **subsp. nov.** Viséan Russia, EINOV C.R. Acad. Sci. URSS **103** 1955.

Sowerbina maynci **sp. nov.** p. 97, *rudis* p. 101 **sp. nov.** both figd. Permian East Greenland, DUNBAR Medd. Grønl. **110** 3 1955.

Striatifera p. 409, GOLDRING **55**.

Striatoproductus sericeus p. 18 figd., FEDOROVA **50**; *S. sericeus* p. 227 figd., MIKRYUKOV **102**; *S. sericeus* p. 277 figd., PETRENEVA **121**; *S. sericeus* p. 76 figd., NOVOJILOVA **116**.

Strophalosia pulchella **sp. nov.** p. 81 figd. Permian East Greenland, DUNBAR Medd. Grønl. **110** 3 1955.

Waagenoconcha payeri p. 85, sp. p. 88 both figd., DUNBAR **41**.

RICHTHOFENACEA

Richthofenacea **superfam. nov.** pp. 69, 90, MUIR-WOOD 'History of the Classification of the Phylum Brachiopoda', London 1955.

†CHONETOIDEA

Chonetoidea **suborder nov.** pp. 67, 72, MUIR-WOOD 'History of the Classification of the Phylum Brachiopoda', London 1955.

CHONETACEA

Chonetes sarcinulatus p. 117 figd., ELLERN, IVANOV & KURBANOV **45**; *C.* sp. (reproduction of reconstruction by von Buch, 1831) figd. p. 27, MUIR-WOOD **109**; *C. sarcinulatus* p. 17 figd., FEDOROVA **50**; *C. setiger* p. 226 figd., MIKRYUKOV **102**; *C.* aff. *minuta*, *setiger* p. 431 figd., NEFEDOVA **112**; *C. sarcinulatus* p. 170, *setiger* p. 171 both figd., BATANOVA **11**; *C.* (?) *ferrugineous* **sp. nov.** p. 1 Ordovician, Argentina, RUSCONI Bol. Paleont. Buenos Aires **32** 1955; "*C.*" *pillahuincensis* **sp. nov.** p. 114 figd., Permian Argentina, HARRINGTON J. Paleont. **29** 1955.

Chonetina noe-nygaardi **sp. nov.** p. 67 figd. Permian East Greenland, DUNBAR Medd. Grønl. **110** 3 1955.

Paeckelmannia toulai **sp. nov.** p. 69 figd. Permian East Greenland, DUNBAR Medd. Grønl. **110** 3 1955.

Plicochonetes nanus p. 16 figd., FEDOROVA **50**.

CADOMELLACEA

Cadomellacea **superfam. nov.** pp. 68, 90, MUIR-WOOD 'History of the Classification of the Phylum Brachiopoda', London 1955.

Cadomellidae **fam. nov.** p. 90, MUIR-WOOD 'History of the Classification of the Phylum Brachiopoda', London 1955.

INCERTAE SEDIS

†*Isogramma paotechowensis* p. 29, figd., MINATO **104**; *I.* p. 920 first record in Lower Carboniferous of North America, cf. *pachti* p. 921 figd. L. Carboniferous California, DUTRO **42**.

RHYNCHONELLOIDEA

Rhynchonelloidea emended from Rhynchonellacea pp. 67, 69, MUIR-WOOD **109**.

RHYNCHONELLACEA

†*Acanthorhynchia nikitinensis* **sp. nov.** p. 216 figd., U^r^. Jurassic Russia, GERASIMOV State Scientific-Technical Publ., Moscow 1955.

† *Calvinaria* " *ambigua* figd., SARTENAER **131**.

†*Camarotoechia locusta* **sp. nov.** p. 229, *partridgiae*, p. 230, *boloniensis* p. 231 all figd., MIKRYUKOV **102**; *C. zadonica* p. 434, aff. *panderi*, *pulchra* **sp. nov.** p. 435 all figd. Devonian, Russia, NEFEDOVA **112**; *C. aldoga* p. 77, *C.* cf. *partridgiae* p. 78 both figd., NOVOJILOVA **116**; *C. omaliusi* figd., SARTENAER **131**; *C. cudovi* figd., HECKER **62**; *C. pskovensis* p. 19, *C. zadonica*, *brodica* p. 20 all figd., FEDOROVA **50**; *C. kirmensis* **sp. nov.** p. 119 figd. Devonian Russia, ELLERN IVANOV & KURBANOV **45**; *C. biferiformis* p. 351, *neopolitana* p. 352 both figd., ADRUANOVA **2**,

Cryptoporidae **fam. nov.** p. 91, MUIR-WOOD ' History of the Classification of the Phylum Brachiopoda ', London 1955.

†*Cyclothyris americana* **sp. nov.** p. 3 figd. Cretaceous Arizona, COOPER Smithson. misc. Coll. **131** 4 1955.

†*Dinapophysia* p. 116, SCHMIDT **135**.

†*Eatonia* discussed p. 58, COOPER **30**.

†*Eucharitina* **gen. nov.** type species *Terebratula eucharis* Barrande 1847, p. 121 figd., Devonian Germany, SCHMIDT Senckenbergiana Lethaea **36** 1955.

†*Fenestrirostra* **gen. nov.** p. 56, type species *Rhynchonella glacialis* Billings p. 5 figd., Silurian Anticosti I. COOPER J. Paleont. **29** 1955.

†*Ferganella praecursor* lectotype selected p. 55 var. *cliftonensis* elevated to specific rank and lectotype selected p. 55, COOPER **30**.

†*Gibbirhynchia micra* p. 18, HALLAM **58**.

†*Halorella* sp. indet. p. 100 figd., DROT **40**.

Hemithiris (reproduction of figure by Beecher, 1897 showing stages in growth of lophophore) figd. p. 56, MUIR-WOOD **109**; *H. psittacea* p. 129, MCGINITIE **95**.

†*Hyborhynchella* **gen. nov.** p. 59 type species *H. bransoni* **sp. nov.** p. 62 figd., U. Devonian New Mexico, COOPER J. Paleont. **29** 1955.

†*Hypothyridina calva* p. 234, *H. cuboides*, *incisiva* p. 235, *corunula* p. 236 all figd., MIKRYUKOV **102**; *H. semilukiana* p. 439 figd., NEFEDOVA **112**; *H. calva* p. 25 figd., *H. semilukiana* p. 26, FEDOROVA **50**; *H. cuboides* p. 128, *semilukiana* p. 129 both figd., ELLERN, IVANOV & KURBANOV **45**; *H. calva* p. 179, *H. coronula* p. 180 both figd., BATANOVA **11**; *H. cuboides* p. 359, *cuboides* var. *nana* p. 360, *incisiva*, *coronula* p. 361 all figd., ADRUANOVA **2**; *H.* (?) cf. *semilukiana* p. 81 figd., NOVOJILOVA **116**.

†*Kallirhynchia morierei* discussed p. 215, BAGUE **8**; *K.* (?) sp. (reproduction of figure by Plot, 1677) figd. p. 4 probably from Jurassic (Great Oolite Series) England, MUIR-WOOD **109**.

†*Ladogia meyendorfi* p. 439 figd., NEFEDOVA **112**; *L. triloba*, *meyendorfi*, p. 80 figd., NOVOJILOVA **116**; *L. meyendorfi* p. 23, *simensis* p. 24 figd., FEDOROVA **50**; *L. simensis* p. 128 figd., ELLERN, IVANOV & KURBANOV **45**.

†*L(e)iorhynchus pavlovi, megistanus*, p. 21, *L. quadricostatus, rhomboideus* p. 22 both figd., FEDOROVA **50**; *L. pavlovi* p. 120 figd., *L. pavlovi* var. *kasanensis* **var. nov.**, p. 121 figd., *megistanus, multicostus*, p. 122 figd., *quadricostatus* var. *kamensis* **var. nov.** p. 123 figd., *biplicatus* p. 124 figd., *L. biplicatus* var. *domanicensis* **var. nov.** p. 125, *L.* (?) *biplicatoides* **sp. nov.** p. 126 all figd., ELLERN, IVANOV & KURBANOV **45**; *L. megistanus* p. 174 figd., *L. lentiformis* p. 175 figd., cf. *subreniformis, timanicus* BATANOVA **11**; *L. domanicensis* p. 353, *L. lentiformis* p. 354, *laevis, megistanus*, p. 355, *formosus* p. 356, *L. pavlovi* var. *taimyrica* p. 357 all figd., *pavlovi* var. *rotunda* **var. nov.**, ADRUANOVA **2**; *L.* **sp. nov.** p. 78, cf. *megistanus* p. 79 both figd., Devonian Russia, NOVOJILOVA **116**; *L.* sp. No. 1 p. 280, *L.* sp. No. 2 p. 281 both figd., PETRENEVA **121**; *L.* (?) *rotundus* **sp. nov.** p. 436, *subreniformis*, cf. *ursus* p. 437 both figd., Devonian Russia, NEFEDOVA **112**; *L. pavlovi* p. 231, *megistanus* p. 232 both figd., MIKRYUKOV **102**.

†*Machaeraria* **gen. nov.** p. 55 type species *Rhynchonella formosa* Hall figd. and lectotype selected, L. Devonian New York, COOPER J. Paleont. **29** 1955.

†*Monticola collinensis* p. 282 figd., PETRENEVA **121**.

†*Nudirostra formosa, crenulata* both figd. with serial sections, SARTENAER **131**; *N.* discussed pp. 58–61, with transverse section, COOPER **30**.

†*Oligorhynchia* sp. figd., NEUMAN **114**.

†*Pegmarhynchia* **gen. nov.** p. 58 type species *P. zimmi* **sp. nov.** p. 59 figd., L. Devonian New York, COOPER J. Paleont. **29** 1955.

†*Plethorhyncha* p. 117, *speciosa* p. 118 figd., SCHMIDT **135**.

†*Porostictia* **gen. nov.** p. 62 type species *Paraphorhynchus perchaensis* Stainbrook figd., Ur. Devonian New Mexico, COOPER J. Paleont. **29** 1955.

†*Pugnax voroni* p. 232 figd., MIKRYUKOV **102**; *P. pugnus* p. 438 figd., NEFEDOVA **112**; *P. lummatoniensis* p. 79 figd., NOVOJILOVA **116**; *P. voroni* p. 23 figd., FEDOROVA **50**; *P. nana* p. 362 figd., ADRUANOVA **2**.

†*Pugnoides tridentatus* p. 438 figd., NEFEDOVA **112**; *P. triaequalis* p. 127 figd., ELLERN, IVANOV & KURBANOV **45**; *P. triaequalis* p. 178 figd., BATANOVA **11**; *P. triaequalis* p. 363 figd., ADRUANOVA **2**.

†*Rhynchonella argotinensis, curviceps* p. 48 figd., *tetraedra, calcicosta*, p. 49 figd., VESELINOVIC **171**; *R. gibbsiana* p. 4, *sulcata* var. *rencurlensis* p. 5 both figd., IACOB **67**; *R. bipartita* figd. p. 67, HYDE **66**; *R. ancillans* p. 235, GIGOUT **54**; *R. rouillieri* p. 218, *loxiae* p. 219 both figd., GERASIMOV **52**; *R. fissicostata* figd., *variabilis* p. 5, *Rhynchonella* sp. p. 6, ATANASIU & RAILEANU **7**; *R.* sp. indet. p. 98 figd., *R.* sp. indet. p. 99, *pomeyroli* **sp. nov.** p. 99 figd. Lr. Lias New Caledonia, DROT Sci. de la Terre **1** 1–2 1953.

†*Rhynchonella* (*Cyclothyrisr*) [err. pro *Cyclothyris*] *alemanica* p. 220 figd., GERASIMOV **52**.

†*Rhynchonella* (*Septaliphoria*) *vorobievensis* p. 221, *corallina* var. *neocomiensis* p. 223, *acuticosta* p. 225, *badensis* p. 225 aff. *baksanensis* p. 226, all figd., GERASIMOV **52**.

†*Rhynchonella* (*Septaliphoria* ?) *fischeri* p. 222, *oxyoptycha* p. 224 both figd., GERASIMOV **52**.

†*Rhynchonella* (*Thurmanella*) *thurmanni* p. 221 figd., GERASIMOV **52**.

†Rhynchonellids (reproduction of figures by Bauhin, 1598) figd. p. 2, Rhynchonellid (reproduction of figure by Colonna, 1616) figd. p. 3, MUIR-WOOD **109**.

†*Rhynchonellina zitteli, alpina* p. 70, *orthisiformis, kastneri* p. 71 all figd., MIHAJLOVIC **101**.

†*Rhynchonelloidella gremifera* p. 217, BAGUE **8**.

†*Rhynchotrema* discussed p. 770, *increbescens increbescens* p. 772, *increbescens minnesotensis, ainsliei* p. 773 all figd., WEISS **175**.

†*Rostricellula* cf. *pristina* figd., NEUMAN **114**.

†*Septalaria semilaevis* p. 363, *bipartita* p. 365, *striata* p. 366 all figd., ADRUANOVA **2**.

†Septirhynchiidae **fam. nov.** p. 5, MUIR-WOOD & COOPER Smithson. Misc. Coll. **116** 6 1951 [omitted from 1951 Z. Record].

†*Shumardella* discussed p. 63, COOPER **30**.

†*Stegerhynchus* revised p. 54, COOPER **30**.

†*Straelenia* p. 115, *dunensis*, *papilio* fig. p. 118, SCHMIDT **135**.

†*Tegulorhynchia squamosa*, aff. *antipoda*, aff. *nigricans* p. 55, FLEMING **51**.

†*Uncinulus pilaeformis* **sp. nov.**, *implexus* p. 233 figd. Devonian Russia, MIKRYUKOV **102**; *U. princeps*, *tarda* p. 235, GIGOUT **54**.

†STENOCISMATACEA

Stenoscismatidae **nom. nov.** for Camarophoriidae p. 91, MUIR-WOOD 'History of the Classification of the Phylum Brachiopoda', London 1955.

Stenoscismatinae **nom. nov.** for Camarophoriinae p. 91, MUIR-WOOD 'History of the Classification of the Phylum Brachiopoda', London 1955.

Camerophoria kochi **sp. nov.** p. 121, *C.* sp. **B**, p. 122, cf. *multiplicata* p. 123 all figd. Permian East Greenland, DUNBAR Medd. Grønl. **110** 3 1955; *C. olgaeformis* **sp. nov.** p. 1102 Devonian Russia, KULIKOV C.R. Acad. Sci. URSS **101** 6 1955.

Stenocisma discussed p. 54, COOPER **30**.

†RHYNCHOPORACEA

Rhynchoporidae **fam. nov.** p. 91, MUIR-WOOD 'History of the Classification of the Phylum Brachiopoda', London 1955.

Rhynchopora abnormalis, *kochi* **spp. nov.** p. 114, *R.* sp. A p. 116 all figd., Permian East Greenland, DUNBAR Medd. Grønl. **110** 3 1955.

†ATRYPOIDEA

Atrypoidea emended from Atrypacea pp. 67, 69, MUIR-WOOD **109**.

ATRYPACEA

Anatrypa timanica p. 241 figd., MIKRYUKOV **102**; *A.* cf. *timanica* p. 444 figd., NEFEDOVA **112**; *A. timanica* p. 189 figd., BATANOVA **11**; *A. sikara* p. 371 figd., ADRUANOVA **2**.

Atrypa velikaja p. 367, *alticola* p. 368 figd., *magnifica* p. 369 figd., cf. *tubaecostata*, *posturalica* p. 370, ADRUANOVA **2**; *A.* aff. *velikaja*, *zonata* p. 130 figd., ELLERN, IVANOV & KURBANOV **45**; *A. zonata* p. 26, *velikaja* p. 27, *uralica* p. 28, *tanaica*, *reticularis* p. 29, *tubaecostata* p. 30 all figd., *aspera*, *bifidaeformis*, FEDOROVA **50**; *A. desquamata* p. 236, *zonata*, *douvillei* p. 237, *velikaja*, *pseudouralica* **sp. nov.** p. 238, *baschkirica* **sp. nov.**, *posturalica* p. 239, *alticola* p. 240, *svinordi* p. 241 all figd. Devonian Russia, MIKRYUKOV **102**; *A. aspera* var. *occidentalis* p. 440, aff. *krasinensis* p. 441, *zonata*, aff. *alinensis* p. 442, *richthofeni* p. 443 all figd., NEFEDOVA **112**; *A. aspera* var. *occidentalis* p. 440 figd., NEFEDOVA **112**; *A. aschensis* p. 283, *bifurcata* p. 284, *posturalica* p. 285 all figd., PETRENEVA **121**; *A.* cf. *zonata* p. 81, *A. uralica*, ex. gr. *aspera* p. 82, all figd., NOVOJILOVA **116**; *A. koloschka* p. 180, *pervagata* **sp. nov.** p. 181, *planosulcata*, *minjarensis*, p. 182, *A. schugurica* **sp. nov.** p. 183 all figd. Devonian Russia, BATANOVA **11**.

Grünewaldtia revised p. 211, *latilinguis* p. 211, *l. matutina* **subsp. nov.** p. 212, *l. latilinguis* p. 228, *l.* subsp. indet. p. 229, *l.* var. *P.* p. 230, sp. indet. p. 231, all figd. Middle Devonian Germany, *rhenana* p. 232, Struve Senckenbergiana **36** 1955.

Homoeospira evax (reproduction of figure by Beecher & Schuchert, 1893 showing mature spiralia) figd. p. 81, MUIR-WOOD **109**.

Protozyga nicolleti p. 773 figd., WEISS **175**.

Zygospira recurvirostris (reproduction of figures by Beecher & Schuchert, 1893 showing stages in growth of brachidium) figd. p. 81, MUIR-WOOD **109**; *Z.* sp. figd., NEUMAN **114**; *Z. uphami* p. 773 figd., WEISS **175**.

Gen. et sp. aff. *Zygospira acutirostris* figd., NEUMAN **114**.

†SPIRIFEROIDEA

Spiriferoidea emended p. 91, MUIR-WOOD 'History of the Classification of the Phylum Brachiopoda', London 1955.

SPIRIFERACEA

Adolfia bifidia, kuktaschensis, p. 379, *multifida*, p. 380, all figd., ADRUANOVA **2**; *A. apschakensis* **sp. nov.** p. 308 figd., *A.* (?) sp. p. 310, KRILOVA **83**; *A. multifida* p. 83 figd., NOVOJILOVA **116**.

Choristites söderberghi **sp. nov.** p. 158 figd. Permian E. Greenland, DUNBAR Medd. Grønl. **110** 3 1955.

Crurithyris planoconvexa p. 171, TASCH **158**; *C. planoconvexa* p. 205, TASCH **159**.

Cyrtiopsis cuneatus p. 374 figd., ADRUANOVA **2**; *C. zilimensis* p. 245 figd., MIKRYUKOV **102**.

Cyrtospirifer disjunctus p. 33, *disjunctus* var. *supradisjunctoidea, schelonicus* p. 34, *lictor, archiaci* p. 35, *brodi* p. 36, *tenticulum* p. 37, *markovskii, conoideus* p. 38, *jeremejewi* p. 39 all figd., FEDOROVA **50**; *C. schelonicus* p. 310, *lictor*, cf. *archiaci, postarchiaci* p. 311, *lebedianicus*, cf. *tenticulum*, cf. *markovskii* p. 312, *muchisonianus* p. 313 all figd., KRILOVA **83**; *C. murchisonianus* p. 131, aff. *muchisonianus* p. 132 both figd., ELLERN, IVANOV & KURBANOV **45**; *C. calcaratus, glincanus*, p. 242, *calcaratus* p. 243, *tenticulum* p. 244 all figd., MIKRYUKOV **102**; *C.* cf. *murchisonianus* p. 83 *verneuili* p. 84 both figd., NOVOJILOVA **116**; *C. murchisonianus* p. 185, *tenticulum, jeremejewi* p. 186, cf. *conoideus* p. 187, *markovskii* p. 188 all figd., BATANOVA **11**; *C. conoideus* p. 372, *markovskii, murchisonianus* p. 373 all figd., ADRUANOVA **2**.

Delthyris raricosta p. 285 figd., PETRENEVA **121**.

Elytha aff. *fimbriata* p. 190 figd., BATANOVA **11**; *E. fimbriata* p. 86 figd., NOVOJILOVA **116**; *E. fimbriata* p. 317 figd., KRILOVA **83**; *E. fimbriata* p. 246 figd., MIKRYUKOV **102**.

Emanuella subumbona p. 319 figd., KRILOVA **83**; *E. subumbona* p. 87, aff. *subumbona* p. 88 both figd., NOVOJILOVA **116**; *E. takwanensis* p. 445 figd., NEFEDOVA **112**; *E. pseudopachyrincha* p. 247 figd., MIKRYUKOV **102**; *E.* (?) *pseudopachyrincha* p. 42, FEDOROVA **50**.

Eoreticularia sp. p. 318 figd., KRILOVA **83**; *E. koltubanica* p. 375, aff. *koltubanica* p. 376 both figd., ADRUANOVA **2**; *E.* (?) *aviceps* p. 87 figd., NOVOJILOVA **116**.

Ilmenia tenuicosta **sp. nov.** p. 248 figd., MIKRYUKOV **102**; *I. altovae* p. 319 figd., KRILOVA **83**; *I.* (?) *tenuicostata* p. 193 figd., BATANOVA **11**.

Kitakamithyris discussed p. 375, CAMPBELL **23**.

Lamellispirifer novosibiricus p. 307, aff. *novosibiricus* p. 308 both figd., KRILOVA **83**; *L. novosibiricus* p. 131 figd., ELLERN, IVANOV & KURBANOV **45**; *L. novosibiricus* p. 32 figd., FEDOROVA **50**.

Martinia greenlandica **sp. nov.** p. 152 figd. Permian East Greenland, DUNBAR Medd. Grønl. **110** 3 1955.

Mentzeliopsis spinosa p. 87 figd., DROT **40**.

Notospirifer **gen. nov.** p. 115 type species *Spirifer darwini* Morris p. 115 figd. Permian Argentina and Australia, HARRINGTON J. Paleont. **29** 1955.

Odontospirifer **gen. nov.** p. 154 type species *O. mirabilis* **sp. nov.** p. 155 figd. and serial sections, Permian East Greenland, DUNBAR Medd. Grønl. **110** 3 1955.

Palaferellinae **nom. transl.** (ex Palaferellidae Spriestersbach 1942) p. 211, STRUVE **155**.

Phricodothyris emended p. 375, *P. uniplicata* **sp. nov.** p. 377, *P. triseptata* **sp. nov.** p. 379, *P. rouchelensis* **sp. nov.** p. 380, *P. booralensis* **sp. nov.** p. 381, all figd. Carboniferous New South Wales, CAMPBELL Geol. Mag. **92** 1955.

Pterospirifer **gen. nov.** p. 128 type-species *Spirifer alatus* Schlotheim p. 129 figd., Permian East Greenland, DUNBAR Medd. Grønl. **110** 3 1955.

Pyramidalia pyramidalis p. 192 figd., BATANOVA **11**; *P. simplex* p. 378 figd., ADRUANOVA **2**; *P. simplex* p. 286, *simplex* var. *domanicensis* p. 287 both figd., PETRENEVA **121**; *Pyramidalia simplex* p. 247 figd., MIKRYUKOV **102**.

Reticularia discussed p. 374, CAMPBELL **23**.

Reticulariopsis pachyrinchus p. 43 figd., FEDOROVA **50**; *R. pachyrinchus* p. 134 figd., ELLERN, IVANOV & KURBANOV **45**; *R. pachyrinchus* p. 191 figd., BATANOVA **11**; *R. pachyrinchus* p. 377 figd., ADRUANOVA **2**; *R. pachyrinchus* p. 318 figd., KRILOVA **83**; *R. pachyrinchus* p. 246 figd., MIKRYUKOV **102**.

Spirifer togatus figd., LE MAÎTRE **90**; *S. verchoyanicus* **sp. nov.** p. 1102 Permian Russia, KULIKOV C.R. Acad. Sci. URSS **101** 6 1955; *S. cudovi, schelonicus, buregi* all figd., HECKER **62**; *S.* aff. *speciosus* p. 444 figd., NEFEDOVA **112**; *S. nitiensus* cf. *grewingki* **sp. nov.** p. 806 Permian Russia, USTRIZKI C.R. Acad. Sci. URSS **105** 4 1955; *S. striatoparadoxus* p. 131 figd., DUNBAR **41**; *Spirifer verneuili* p. 214 figd., TACHIBANA **156**.

Spirifer (*Acrospirifer*) *primaevus, pellico, rousseaui, paradoxus, fallax*, figd., LE MAÎTRE **90**.

Spirifer (*Cyrtospirifer*) *verneuili* p. 123 figd., TACHIBANA **156**.

Spirifer (*Delthyris*) *inchoans* p. 235, GIGOUT **54**.

Spiriferella keilhavii p. 139 figd., DUNBAR **41**.

Theodossia livnensis p. 132, *T. evlanensis* p. 133 both figd., ELLERN, IVANOV & KURBANOV **45**; *T. tanaica, evlanensis*, p. 40, *T. saratovica* **sp. nov.** p. 41 all figd. Devonian Russia, FEDOROVA **50**; *T.* cf. *tanaica, evlanensis* p. 85, *auossofi* p. 86 both figd., NOVOJILOVA **116**; *T. tanaica* p. 313, *julovensis, evlanensis* p. 314, *evlanensis* var. *voronensis, livnensis* p. 315, *livnensis* var. *donensis* p. 316 all figd., KRILOVA **83**; *T. katavensis* p. 189, *livnensis* p. 190 both figd., BATANOVA **11**; *T. katavensis* p. 245 figd., MIKRYUKOV **102**.

Torynifer discussed p. 375, CAMPBELL **23**.

ROSTROSPIRACEA

Anathyris **sp. nov.** (?), cf. *helmerensis* p. 447 figd., NEFEDOVA **112**; *A. helmerseni* p. 45 figd., FEDOROVA **50**.

Athyris cuboides p. 446 figd., NEFEDOVA **112**; *A. subconcentrica* p. 288 figd., PETRENEVA **121**; *A. concentrica, globosa* p. 381 figd., ADRUANOVA **2**; *A. concentrica* p. 235, GIGOUT **54**; *A. bayeti* p. 44, *A. concentrica* p. 45 both figd., FEDOROVA **50**; *A. wreyi* p. 96, *kaihikuana* p. 97, *A.* cf. *manzavinioides* p. 98 all figd., DROT **40**; *A. undata* figd., LE MAÎTRE **90**.

Cleiothyridina nielseni **sp. nov.** p. 124, *maynci* **sp. nov.** p. 125, *pectinifera* p. 126 all figd. Permian East Greenland, DUNBAR Medd. Grønl. **110** 3 1955.

Merista aff. *plebeja* p. 249 figd., MIKRYUKOV **102**.

PUNCTOSPIRACEA

Clavigera bisulcata p. 92 figd., *drotae* p. 93 figd. and serial section, DROT **40**.

Cyrtina demarlii p. 194 figd., BATANOVA **11**; *C. demarlii* p. 446 figd., NEFEDOVA **112**; *C.* aff. *uncinata* p. 4 figd., ATANASIU & RAILEANU **7**; *C. demarlii* p. 43 figd., FEDOROVA **50**.

Hustedia troelseni **sp. nov.** p. 160 figd., DUNBAR Medd. Grønl. **110** 3 1955.

Psioidea(?) *australis* p. 95, *P.* **sp. nov.** (?) p. 96 both figd. Trias New Caledonia, DROT Sci. de la Terre **1** 1–2 1953.

Punctospirifer cristata p. 149 figd., DUNBAR **41**.

Rastelligera cf. *elongata* p. 95 figd., DROT **40**.

Septosyringothyris **gen. nov.** type species *S. demaneti* **sp. nov.** p. 2 figd. Carboniferous Belgium, VANDERCAMMEN Bull. Int. roy. Sci. nat Belg. **31** 30 1955.

Spiriferina walcotti, rostratus p. 9, GUÉRIN **57**; *S. multiplicata* p. 147, *S.* sp. A p. 148 both figd., DUNBAR **41**; *S. haueri* p. 5 figd., ATANASIU & RAILEANU **7**; *S. kaihikuana* p. 88, *parki*, sp. indet. p. 89, *orophila, gregaria* p. 90, cf. *fragilis*, cf. *acutissima* p. 91, cf. *gypaëtus* p. 92, all figd., DROT **40**.

Syringothyris cuspidata p. 390 figd., VANDERCAMMEN **168**; *S. elongata* p. 389, figd., VANDERCAMMEN **168**.

TEREBRATULOIDEA

Terebratuloidea **suborder nov.** substituted for Gryphoidea (pars) pp. 78–9, MUIR-WOOD 'History of the Classification of the Phylum Brachiopoda', London 1955.

TEREBRATULACEA

Amphigenia discussed p. 1659, LE MAÎTRE **91**.

Cancellothyridae **fam. nov.** p. 93, MUIR-WOOD 'History of the Classification of the Phylum Brachiopoda', London 1955.

†*Cererithyris nutiensis*, **sp. nov.** p. 219 with serial sections, *intermedia* both figd., Jurassic France, BAGUE Bull. sci. Bourgogne **15** 1955.

†*Cryptonella* (?) *uralica* p. 382 figd., ADRUANOVA **2**.

†*Dielasma kharaulakhensis, truncatoformis* **spp. nov.** p. 1103, Permian Russia, KULIKOV C.R. Acad. Sci. URSS **101** 6 1955.; *D.* sp. figd., STEHLI **150**; *D.* cf. *himalayana, D.* (?) sp. p. 101 figd., DROT **40**; *D. elongatum* p. 117, *D. stoschensis* **sp. nov.** p. 118 both figd. Permian East Greenland, DUNBAR Medd. Grønl. **110** 3 1955.

Girtyella turgida (reproduction of figures by Beecher & Schuhert, 1893 showing stages in growth of brachidium) figd. p. 81, MUIR-WOOD **109**.

†*Liothyrella* cf. *gravida* p. 55, FLEMING **51**.

†*Maclarenella* **gen. nov.** type species *M. maculosa* **sp. nov.** p. 869 figd. showing original colour pattern, transverse sections Devonian Alberta, STEHLI J. Paleont. **29** 1955.

†*Meganteris archiaci* figd., LE MAÎTRE **90**.

†*Orthothyris* **gen. nov.** p. 64 type species *O. radiata* **sp. nov.** p. 65 figd. U. Cretaceous Cuba, COOPER J. Paleont. **29** 1955.

†*Pygope* unique record in boreal Valanginian p. 22, DONOVAN **39**.

†*Rectithyris vespertina* **sp. nov.** p.4 figd. Cretaceous Arizona, COOPER Smithson. misc. Coll. **131** 4 1955.

†*Terebratula* cf. *scillae, sinuosa* p. 55 both figd., MALARADO **98**; *T. sinuosa* figd. p. 67, HYDE **66**; *T. subsella* p. 667 figd., BASSE **9**; *T. dutempleana* p. 34 figd., ANDELKOVIĆ **5**; *Terebratula subsella*, cf. *bisuffarcinata, bicanaliculata, phillipsi*, cf. *orbis, Terebratula* sp. p. 73, DANISCH **37**; *T. gregaria* p. 362, POLLINI **124**; *T. latifrons* p. 227, *michalkowii* p. 228, *insignis* var. *maltonensis* p. 230, *subcanaliculata* p. 230, aff. *subrhomboidalis* p. 231 all figd., GERASIMOV **52**; *T.* ? *alfonskii* p. 229 figd., GERASIMOV **52**; *T.* aff. *causoniana*, p. 9, GUÉRIN **57**.

†*Terebratula* (*Coenothyris*) *vulgaris* p. 645 figd., CONTI **28**.

†*Terebratula* (*Lobothyris* ?) aff. *subpunctata* p. 9, GUÉRIN **57**,

†*Terebratulina edwardsi* p. 168, ELLIOTT **46**; *T. caputserpentis* figd. p. 67, HYDE **66**; *T.* cf. *substriata* p. 73, DANISCH **37**; *T. suessi* p. 55, FLEMING **51**; *T.* (?) sp. (reproduction of figures by Gründler, 1774) figd. p. 7, MUIR-WOOD **109**.

Terebratulidae (reproduction of figure by Beecher, 1897 showing stages in growth of lophophore) figd. p. 56, MUIR-WOOD **109**.

†Terebratulids (reproduction of figures by Baier, 1708) figd. p. 5, Terebratulids (reproduction of figures by Colonna, 1616) figd. p. 3, Terebratulids (reproduction of figures by Plot, 1677) figd. p. 4, MUIR-WOOD **109**.

TEREBRATELLOIDEA

Terebratelloidea **suborder nov.** substituted for Gryphoidea (pars) pp. 78–80, MUIR-WOOD 'History of the Classification of the Phylum Brachiopoda', London 1955.

TEREBRATELLACEA

Terebratellacea (reproduction of figures by Beecher, 1895 showing stages in growth of loop) figd. p. 83, MUIR-WOOD **109.**

Argyrotheca (reproduction of figure by Beecher, 1897 showing stages of growth of lophophore) figd. p. 54, MUIR-WOOD **109;** *A.* sp. p. 318 figd. COOPER **31;** †*A.* spp. p. 169, ELLIOTT **46.**

†*Aulacothyris* (?) sp. p. 102 figd., DROT **40;** *A. subbuculenta* p. 244, *impressa* p. 244, *subalveata* **sp. nov.** p. 245 all figd. Ur. Jurassic Russia, GERASIMOV State Scientific-Technical Publ., Moscow 1955.

†*Cheirothyris aculeata* p. 245 figd., GERASIMOV **52.**

Diestothyris spitzbergiensis p. 129, MCGINITIE **95.**

†*Digonella sowerbyi* p. 235, *marconi* p. 236, BAGUE **8.**

†*Eudesia cardioides* p. 231 serial sections, BAGUE **8.**

†*Gemmarcula arizonensis* **sp. nov.** p. 7, *menardi* p. 10 both figd. Cretaceous Arizona, COOPER Smithson. misc. Coll. 131 4 1955.

Megathiris (reproduction of figure by Beecher, 1897 showing lophophore growth-stage) figd. p. 54, MUIR-WOOD **109.**

†*Megerlia truncata* figd. p. 67, HYDE **66.**

Megerliinae **nom. nov.** for Mühlfeldtiinae p. 93, MUIR-WOOD 'History of the Classification of the Phylum Brachiopoda', London 1955.

Megerlina lamarkiana p. 1123, WILLIAMS **177.**

†*Neothyris campbellica*, *M.* **sp. nov.** p. 55, FLEMING Cape Exped. Ser. Bull. No. 3 1950.

†*Phragmothyris* **gen. nov.** p. 65 type species *P. cubensis* **sp. nov.**, *costellata* **sp. nov.** p. 67, *palmeri* **sp. nov.**, *rotunda* **sp. nov.** p. 68, *subplana* **sp. nov.** p. 69, all figd. Eocene & Oligocene Cuba, COOPER J. Paleont. 29 1955.

†*Psilothyris* **gen. nov.** p. 10 type species *P. occidentalis* **sp. nov.** p. 11. *P. tamarinda* p. 14 both figd., COOPER Smithson. misc. Coll. 131 4 1955.

†*Terebratella* **sp. nov.** aff. *sanguinea* FLEMING Cape Exped. Ser. Bull. No. 3 1950.

†*Terebratella* (*Dictyothyris* ?) *gzheliensis* **sp. nov.** p. 246 figd. Ur. Jurassic Russia, GERASIMOV State Scientific-Technical Publ., Moscow 1955.

Terebratellidae (reproduction of figure by Beecher, 1897 showing stages in growth of lophophore) figd. p. 56, MUIR-WOOD **109.**

†*Waldheimia* (*Zeilleria*) *subnumismalis*, aff. *verneuili* p. 6 figd., ATANASIU & RAILEANU **7.**

†*Zeilleria lagenalis* p. 232, *trautscholdi*, *clemenci* p. 233, *truncata* **sp. nov.** p. 234, *royeriana* p. 235, *r.* var. *subbullata* **var. nov.**, *r.* var. *ovalis* **var. nov.** p. 237, *bullata*, *b.* var. *planata* **var. nov.** p. 238, *eichwaldi* p. 239, *choroschovensis* **sp. nov.**, *volgensis* p. 240, *luna* p. 241, *l.* var. *tenua*, *plicata* **sp. nov.** p. 243, *Z.* (?) *popilanica* p. 241, all figd. Ur. Jurassic Russia, GERASIMOV State Scientific-Technical Publ., Moscow 1955.